

US-PAT-NO: 4440898

DOCUMENT-IDENTIFIER: US 4440898 A

TITLE: Creping adhesives containing ethylene oxide/propylene  
oxide copolymers

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Brief Summary Text - BSTX (7):

A creping adhesive commonly used for throughdrying processes consists of a **blend of ethylene/vinyl acetate copolymer and polyvinyl alcohol**. This composition is satisfactory for a wide range of applications, but suffers from buildup of water insoluble residues on process fabrics. The disclosed adhesive comprising ethylene oxide/propylene oxide copolymer and polyvinyl alcohol provides good web bonding properties to the surface of the Yankee dryer while allowing easy cleanup of residues on process fabrics by virtue of the **adhesive's water** solubility.

Detailed Description Text - DETX (11):

The creping adhesive described in Example 1 was tested in the above-described procedure and compared to a standard adhesive commonly used in the papermaking industry, namely a 70/30 **blend of ethylene/vinyl acetate copolymer and polyvinyl alcohol**. The results are summarized in tabular form below:

Claims Text - CLTX (1):

1. A creping adhesive for use in a throughdrying process for the manufacture of creped wadding, said creping **adhesive consisting essentially of an aqueous** admixture of ethylene oxide/propylene oxide copolymer and a water soluble or water dispersible high molecular weight thermoplastic polymer selected from the group consisting of polyvinyl alcohol and polyvinyl pyrrolidone and having sufficient strength to form an adhesive film, wherein the relative amount of ethylene oxide moieties in the ethylene oxide/propylene oxide copolymer is from about 10 to 80 weight percent based on the combined dry weights of the ethylene oxide/propylene oxide copolymer and the thermoplastic polymer and wherein the amount of the ethylene oxide/propylene oxide copolymer

is from about 40 to about 60 dry weight percent of the adhesive composition.